

Van P. Thompson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	4,387 citations	37 h-index	65 g-index
92 ext. papers	4,844 ext. citations	3.6 avg, IF	5.32 L-index

#	Paper	IF	Citations
89	Effect of sandblasting on the long-term performance of dental ceramics. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 381-6		317
88	Basic research methods and current trends of dental implant surfaces. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 579-96	3.5	232
87	Use of contact testing in the characterization and design of all-ceramic crownlike layer structures: a review. <i>Journal of Prosthetic Dentistry</i> , 2001 , 86, 495-510	4	195
86	Bonding to glass infiltrated alumina ceramic: adhesive methods and their durability. <i>Journal of Prosthetic Dentistry</i> , 1995 , 73, 240-9	4	191
85	Sandblasting and silica coating of a glass-infiltrated alumina ceramic: volume loss, morphology, and changes in the surface composition. <i>Journal of Prosthetic Dentistry</i> , 1994 , 71, 453-61	4	191
84	A new classification system for all-ceramic and ceramic-like restorative materials. <i>International Journal of Prosthodontics</i> , 2015 , 28, 227-35	1.9	183
83	Materials design in the performance of all-ceramic crowns. <i>Biomaterials</i> , 2004 , 25, 2885-92	15.6	176
82	Engineering long term clinical success of advanced ceramic prostheses. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 47-56	4.5	152
81	Monolithic CAD/CAM lithium disilicate versus veneered Y-TZP crowns: comparison of failure modes and reliability after fatigue. <i>International Journal of Prosthodontics</i> , 2010 , 23, 434-42	1.9	148
80	Risk factors for osteonecrosis of the jaws: a case-control study from the CONDOR dental PBRN. <i>Journal of Dental Research</i> , 2011 , 90, 439-44	8.1	147
79	In vivo bone response to 3D periodic hydroxyapatite scaffolds assembled by direct ink writing. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 747-58	5.4	145
78	Factorial analysis of variables influencing stress in all-ceramic crowns. <i>Dental Materials</i> , 2006 , 22, 125-32	5.7	114
77	Performance of hydroxyapatite bone repair scaffolds created via three-dimensional fabrication techniques. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 67, 1228-37	5.4	102
76	Effect of core design and veneering technique on damage and reliability of Y-TZP-supported crowns. <i>Dental Materials</i> , 2013 , 29, 307-16	5.7	88
75	Dental ceramics and the molar crown testing ground. <i>Journal of Applied Oral Science</i> , 2004 , 12, 26-36	3.3	77
74	Residual stresses in porcelain-veneered zirconia prostheses. <i>Dental Materials</i> , 2012 , 28, 873-9	5.7	76
73	Surface characterisation and bonding of Y-TZP following non-thermal plasma treatment. <i>Journal of Dentistry</i> , 2013 , 41, 51-9	4.8	75

72	Argon-based atmospheric pressure plasma enhances early bone response to rough titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1901-6	5.4	69
71	Engineered cellular response to scaffold architecture in a rabbit trephine defect. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 275-82		68
70	Additive CAD/CAM process for dental prostheses. <i>Journal of Prosthodontics</i> , 2011 , 20, 93-6	3.9	66
69	Resin-bonded retainers. Part I: Resin bond to electrolytically etched nonprecious alloys. <i>Journal of Prosthetic Dentistry</i> , 1983 , 50, 771-9	4	65
68	Fatigue resistance of CAD/CAM resin composite molar crowns. <i>Dental Materials</i> , 2016 , 32, 499-509	5.7	64
67	Comparative reliability analyses of zirconium oxide and lithium disilicate restorations in vitro and in vivo. <i>Journal of the American Dental Association</i> , 2011 , 142 Suppl 2, 4S-9S	1.9	62
66	Fatigue life and failure modes of crowns systems with a modified framework design. <i>Journal of Dentistry</i> , 2010 , 38, 626-34	4.8	58
65	Reliability and failure modes of implant-supported zirconium-oxide fixed dental prostheses related to veneering techniques. <i>Journal of Dentistry</i> , 2011 , 39, 489-98	4.8	57
64	Competition of fracture mechanisms in monolithic dental ceramics: flat model systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 402-11	3.5	57
63	Reliability of one-piece ceramic implant. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 419-26	3.5	57
62	Thermal/mechanical simulation and laboratory fatigue testing of an alternative yttria tetragonal zirconia polycrystal core-veneer all-ceramic layered crown design. <i>European Journal of Oral Sciences</i> , 2010 , 118, 202-9	2.3	56
61	Marginal fit of leucite-glass pressable ceramic restorations and ceramic-pressed-to-metal restorations. <i>Journal of Prosthetic Dentistry</i> , 2005 , 93, 143-7	4	56
60	In vitro contact wear of dental composites. <i>Dental Materials</i> , 2004 , 20, 63-71	5.7	54
59	Effect of framework design on crown failure. <i>European Journal of Oral Sciences</i> , 2009 , 117, 194-9	2.3	46
58	Surface characterization of Ti and Y-TZP following non-thermal plasma exposure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 199-206	3.5	42
57	Influence of prolonged thermal cycling and water storage on the tensile bond strength of composite to NiCr alloy. <i>Dental Materials</i> , 1994 , 10, 19-25	5.7	42
56	Effect of water storage time and composite cement thickness on fatigue of a glass-ceramic trilayer system. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 117-23	3.5	41
55	Effect of metal primers on microtensile bond strength between zirconia and resin cements. <i>Journal of Prosthetic Dentistry</i> , 2011 , 105, 296-303	4	39

54	Slow cooling protocol improves fatigue life of zirconia crowns. <i>Dental Materials</i> , 2015 , 31, 77-87	5.7	38
53	Design features of a three-dimensional molar crown and related maximum principal stress. A finite element model study. <i>Dental Materials</i> , 2010 , 26, 156-63	5.7	38
52	Failure modes of Y-TZP crowns at different cusp inclines. <i>Journal of Dentistry</i> , 2010 , 38, 707-12	4.8	34
51	Outcomes of implants and restorations placed in general dental practices: a retrospective study by the Practitioners Engaged in Applied Research and Learning (PEARL) Network. <i>Journal of the American Dental Association</i> , 2014 , 145, 704-13	1.9	33
50	Fatigue and damage accumulation of veneer porcelain pressed on Y-TZP. <i>Journal of Dentistry</i> , 2010 , 38, 318-24	4.8	33
49	Conventional and modified veneered zirconia vs. metaloceramic: fatigue and finite element analysis. <i>Journal of Prosthodontics</i> , 2012 , 21, 433-9	3.9	32
48	Off-axis sliding contact reliability and failure modes of veneered alumina and zirconia. <i>Dental Materials</i> , 2009 , 25, 892-8	5.7	31
47	Outcomes of endodontic therapy in general practice: a study by the Practitioners Engaged in Applied Research and Learning Network. <i>Journal of the American Dental Association</i> , 2012 , 143, 478-87	1.9	30
46	Bond strength to high-crystalline content zirconia after different surface treatments. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 318-23	3.5	29
45	Prevalence of persistent pain 3 to 5 years post primary root canal therapy and its impact on oral health-related quality of life: PEARL Network findings. <i>Journal of Endodontics</i> , 2014 , 40, 1917-21	4.7	28
44	Reliability and fatigue damage modes of zirconia and titanium abutments. <i>International Journal of Prosthodontics</i> , 2010 , 23, 56-9	1.9	28
43	Reliability and failure modes of implant-supported Y-TZP and MCR three-unit bridges. <i>Clinical Implant Dentistry and Related Research</i> , 2010 , 12, 235-43	3.9	24
42	MicroCT analysis of hydroxyapatite bone repair scaffolds created via three-dimensional printing for evaluating the effects of scaffold architecture on bone ingrowth. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 371-7	5.4	24
41	The tooth: An analogue for biomimetic materials design and processing. <i>Dental Materials</i> , 2020 , 36, 25-43	3.7	22
40	Nonsurgical treatment of incipient and hidden caries. <i>Dental Clinics of North America</i> , 2005 , 49, 905-21, viii	3.3	21
39	Marginal accuracy of three implant-ceramic abutment configurations. <i>International Journal of Oral and Maxillofacial Implants</i> , 2012 , 27, 537-43	2.8	20
38	Influence of abutment-to-fixture design on reliability and failure mode of all-ceramic crown systems. <i>Dental Materials</i> , 2014 , 30, 408-16	5.7	18
37	Corrosion resistance evaluation of a Ca- and P-based bioceramic thin coating in Ti-6Al-4V. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 215-22	4.5	17

36	Effect of proximal wall height on all-ceramic crown core stress distribution: a finite element analysis study. <i>International Journal of Prosthodontics</i> , 2009 , 22, 78-86	1.9	17
35	Bond angle effects on microtensile bonds: laboratory and FEA comparison. <i>Dental Materials</i> , 2006 , 22, 314-24	5.7	16
34	Influence of atmospheric pressure plasma treatment on mechanical proprieties of enamel and sealant bond strength. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1082-91	3.5	15
33	In vitro fatigue tests and in silico finite element analysis of dental implants with different fixture/abutment joint types using computer-aided design models. <i>Journal of Prosthodontic Research</i> , 2018 , 62, 24-30	4.3	14
32	Residual thermal stress simulation in three-dimensional molar crown systems: a finite element analysis. <i>Journal of Prosthodontics</i> , 2012 , 21, 529-34	3.9	14
31	Effectiveness of a resin-modified glass ionomer liner in reducing hypersensitivity in posterior restorations: a study from the practitioners engaged in applied research and learning network. <i>Journal of the American Dental Association</i> , 2013 , 144, 886-97	1.9	14
30	Linear dimensional accuracy of epoxy resin and stone dies. <i>Journal of Prosthetic Dentistry</i> , 1981 , 45, 621-5	4	14
29	Tensile bond strength of dental adhesives bonded to simulated caries-exposed dentin. <i>Journal of Prosthetic Dentistry</i> , 1994 , 71, 165-73	4	13
28	Long-term Adhesion Study of Self-etching Systems to Plasma-treated Dentin. <i>Journal of Adhesive Dentistry</i> , 2015 , 17, 227-33	3	13
27	Effect of 2% iodine disinfecting solution on bond strength to dentin. <i>Journal of Applied Oral Science</i> , 2006 , 14, 399-404	3.3	12
26	Periodontal diagnosis affected by variation in terminology. <i>Journal of Periodontology</i> , 2013 , 84, 606-13	4.6	11
25	Microtensile bond strength of resin-based composites to Ti-6Al-4V. <i>Dental Materials</i> , 2009 , 25, 655-61	5.7	11
24	Impact fracture resistance of two titanium-abutment systems versus a single-piece ceramic implant. <i>Clinical Implant Dentistry and Related Research</i> , 2011 , 13, 168-73	3.9	10
23	Restorative outcomes for endodontically treated teeth in the Practitioners Engaged in Applied Research and Learning network. <i>Journal of the American Dental Association</i> , 2012 , 143, 746-55	1.9	9
22	Reliability and failure modes of two Y-TZP abutment designs. <i>International Journal of Prosthodontics</i> , 2015 , 28, 75-8	1.9	8
21	Contact fatigue response of porcelain-veneered alumina model systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 508-15	3.5	7
20	Dentin caries activity in early occlusal lesions selected to receive operative treatment: findings from the Practitioners Engaged in Applied Research and Learning (PEARL) Network. <i>Journal of the American Dental Association</i> , 2012 , 143, 377-85	1.9	7
19	Reliability and Failure Modes of a Hybrid Ceramic Abutment Prototype. <i>Journal of Prosthodontics</i> , 2018 , 27, 83-87	3.9	6

18	Practice-Based Research Network Infrastructure Design for Institutional Review Board Risk Assessment and Generalizability of Clinical Results. <i>Therapeutic Innovation and Regulatory Science</i> , 2013 , 47, 82-89	1.2	6
17	Advantages of the Dental Practice-Based Research Network Initiative and Its Role in Dental Education. <i>Journal of Dental Education</i> , 2011 , 75, 1053-1060	1.6	6
16	Biomechanical evaluation of an anatomically correct all-ceramic tooth-crown system configuration: core layer multivariate analysis incorporating clinically relevant variables. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 051001	2.1	6
15	Reliability and fatigue failure modes of implant-supported aluminum-oxide fixed dental prostheses. <i>Clinical Oral Implants Research</i> , 2012 , 23, 1173-80	4.8	5
14	Fracture Modes in Curved Brittle Layers Subject to Concentrated Cyclic Loading in Liquid Environments. <i>Journal of Materials Research</i> , 2009 , 24, 1075-1081	2.5	5
13	Advantages of the dental practice-based research network initiative and its role in dental education. <i>Journal of Dental Education</i> , 2011 , 75, 1053-60	1.6	5
12	bond strengths post thermal and fatigue load cycling of sapphire brackets bonded with self-etch primer and evaluation of enamel damage. <i>Journal of Clinical and Experimental Dentistry</i> , 2020 , 12, e22-e30 ¹⁴	1.4	5
11	Novel speed sintered zirconia by microwave technology. <i>Dental Materials</i> , 2021 , 37, 875-881	5.7	4
10	Dynamic finite element analysis and moving particle simulation of human enamel on a microscale. <i>Computers in Biology and Medicine</i> , 2014 , 55, 53-60	7	3
9	Level of oral health impacts among patients participating in PEARL: a dental practice-based research network. <i>Community Dentistry and Oral Epidemiology</i> , 2012 , 40, 332-42	2.8	3
8	Hertzian contact response of dentin with loading rate and orientation. <i>Archives of Oral Biology</i> , 2008 , 53, 729-35	2.8	3
7	Effect of indenter material on reliability of all-ceramic crowns. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103831	4.1	2
6	Abutment design for implant-supported indirect composite molar crowns: reliability and fractography. <i>Journal of Prosthodontics</i> , 2012 , 21, 596-603	3.9	2
5	Resistance of bonded premolars to four artificial ageing models post enamel conditioning with a novel calcium-phosphate paste. <i>Journal of Clinical and Experimental Dentistry</i> , 2020 , 12, e317-e326	1.4	2
4	AuthorsUresponse. <i>Journal of the American Dental Association</i> , 2014 , 145, 1013-4	1.9	1
3	Practice based research networks impacting periodontal care: PEARL Initiative. <i>Journal of Periodontology</i> , 2013 , 84, 567-71	4.6	1
2	Defining Periodontitis for "Person-Centered Care". <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2015 , 36, 430-1	0.3	
1	Case Presentations Demonstrating Periodontal Treatment Variation: PEARL Network. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2015 , 36, 432-40	0.3	

